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## DEAR READERS,

While elsewhere the summer break is coming to an end, for the Excellence Initiative summer continues: The TU Dresden Summer of Excellence is just beginning, with two International Summer Schools in Chemistry/Physics and in Medicine. Then, cfaed is set to follow with its acclaimed [Microelectronics Academy](#). Two more Summer Schools, initiated by the Institutional Strategy, and a meeting of Regional Ambassadors are scheduled for the beginning of October. The highlight will be the "Night of Excellence" on 5 October, where, among other things, TU Dresden's homebrewed beer will be presented.

## BROAD SPECTRUM AT SUMMER OF EXCELLENCE

As in the previous three years, a number of International Summer Schools funded by the Institutional Strategy will take place in 2016 under the heading "Summer of Excellence". First up is the School of Science Summer School from 29 August to 2 September on "[Symmetries and Phase Transitions](#)". From 7 to 9 September, the School of Medicine Summer School will be focusing on "[Technology Transfer in Life Sciences](#)". Two Summer Schools will be taking place at the beginning of October (Humanities and Social Sciences "[Risk communication und Narrative of Risk](#)" from 3 to 7 October and "[Bio-Leaching and Metal Extraction Processes for Urban Mining](#)" at the School of Science from 4 to 8 October).



Photo: André Wirsig

### NEW ROUND OF FUNDING FOR INTERNATIONAL PROJECTS

It was only initiated last year, and already the [Funding Programme for the Implementation the Internationalisation Strategy "TU Dresden – Connected to the World"](#) can look back on more than 30 successful proposals. The next round of funding is now approaching: applications for financial support for internationalisation measures relating to the action areas and goals set out in the Internalisation Strategy can once again be submitted up to the deadline of 31 October 2016. The funding programme is addressed to all employees in the central and decentralised organisational units at TUD. Your contact person is [Andrea Büschel](#), Advisor for Academic Affairs and Internationalisation at the Institutional Strategy.

### DRESDEN-CONCEPT ON SHOW AT DAY OF GERMAN UNITY

The [DRESDEN-concept](#) (DDc) science exhibition taking place on Dresden's Neumarkt Square from 4 July to 3 October, is attracting a great deal of interest. On four large display stands, you can learn about twelve current research topics. These core elements will also be in place from 1 to 3 October, during the celebrations of the anniversary of German unification. Until 20 September, eight vegetation areas, so-called CityTrees created by the award-winning start-up Green City Solutions, provide information about the DDc partners.



Photo: René Jungnickel

### CONFERENCE ASSISTS WITH POST-PHD CAREER PLANNING

A PhD opens the door to many different career paths, but which of them is the right one in each case? What role can the university play in pointing out and shaping career paths? Individual experiences and potential answers to these and other questions are to be discussed in a university-wide exchange and with numerous representatives from science, business and society at a conference taking place from 22 to 23 September in the [Graduate Academy](#). The university association for qualification of young researchers in Germany (UniWiND) will host the conference in collaboration with the Graduate Academy at TU Dresden. The [UniWiND](#) network currently comprises about 50 member universities that have made promoting young researchers their central mission.



Photo: UniWiND

### INDIAN TREFFTZ PROFESSOR RESEARCHES REGENERATIVE COOLING SYSTEMS

Dr. Madhuri Wuppulluri is on her first research stay abroad: the materials scientist from India has been [Eleonore Trefftz Visiting Woman Professor](#) at the TU Chair of Building Energy Systems and Heat Supply since the beginning of July. The 38-year-old will now spend a year working in a joint research group based at the Leibniz Institute of Solid State and Materials Research (IFW) on the development of innovative energy-efficient air conditioning systems.

The project “Solare magnetische Klimatisierung von Gebäuden” (SOMAK, Solar magnetic air conditioning of buildings) is funded by the Federal Ministry for Economic Affairs and Energy (BMWi). “The Trefftz Programme was the best and the longest programme especially for women scientists that I could find,” explains Madhuri Wuppulluri, who has been Assistant Professor of Physics at the VIT University in Vellore, located in the southern Indian province of Tamil Nadu, since 2009. “One year will give me the opportunity to carry out sound research with my colleagues here and to develop a feeling for the culture of the country.”

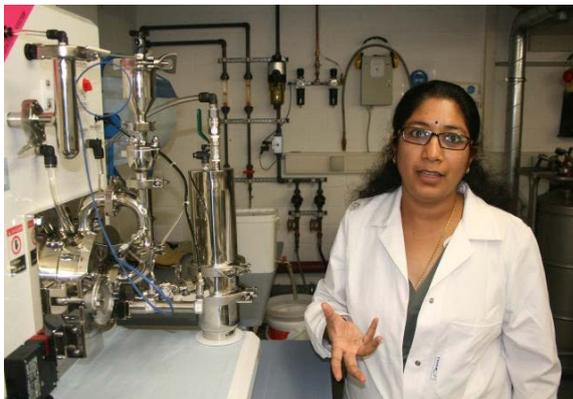


Photo: Birgit Holthaus

### **TUD SUSTAINABLE SCIENCE SLAM AT DRESDEN UN DAY**

A multi-faceted programme is on offer at this year’s festivities for the [United Nations Day](#) which is being held in Dresden from 24 to 28 October. The event kicks off with an official ceremony in Dresden’s City Hall, the anniversary of the day that the United Nations Charter came into force. On 28 October, a large event fair will take place in the World Trade Center, where the Dresden affiliation of the UN University, UNU-FLORES, also has its headquarters. International visiting researchers who have been invited as part of the Institutional Strategy will also be participating in TU Dresden’s “Sustainable Science Slam”. The day will wind down with an after-work party and will include live music from the TU-Band DHUN, among others.



Picture Credit: UNU-FLORES

### **PROF. BONIFACIO IS APPOINTED NEW DIRECTOR OF CRTD**

In June, [CRTD](#) research group leader Prof. Ezio Bonifacio was appointed new Director of the DFG Research Center for Regenerative Therapies Dresden (CRTD) by TUD’s Rector, Prof. Dr. Hans Müller-Steinhagen. Prof. Bonifacio will hold this position for the next two years. He follows in the footsteps of Prof. Ely Tanaka, who had been head of the CRTD since April 2014.



Photo: CRTD

### DIABETES STUDY FREDER1K AT CRTD GIVEN THE GO-AHEAD

On 13 June, the ethics commission gave the go-ahead for the [Freder1k study](#). The objective of the study is the early detection of the risk of developing type 1 diabetes. The Freder1k study is conducted jointly by the CRTD (Prof. Bonifacio), Technische Universität Dresden, Universität Leipzig, Helmholtz Zentrum Munich and various maternity hospitals and paediatric clinics in Saxony. The Freder1k study will begin in Dresden and Leipzig. This pilot project ([video clip](#)) is intended to form the basis for European investment in early diabetes detection and prevention in children. Altogether, 5000 newborn babies will be screened for their risk of developing type 1 diabetes. This examination will be integrated into the regular screening of newborn babies. Dr. Eva-Maria Stange, State Minister of Science and the Arts, is patronizing the study.



*Press Conference about Freder1K study. Photo: Wirsig*

### VIDEO PORTRAIT OF CFAED'S FIRST OPEN TOPIC PROFESSOR

Markus Kröttsch took up his Chair of Knowledge-Based Systems on 1 July. This is the first of the open topic professorships awarded by the [Center for Advancing Electronics Dresden \(cfaed\)](#), which aim at keeping aspiring researchers and attracting international talents. Despite many attractive offers, Kröttsch opted for TU Dresden, and in particular for the cfaed Excellence Cluster. He explains why in a [video portrait](#). In it, the former

Emmy Noether research group leader and winner of the Heinz-Maier-Leibnitz Prize also presents his field of research in more detail.

### CFAED-PARTNER NAMLAB CELEBRATES ITS 10TH ANNIVERSARY

On 19 August, there was a festive mood at the NaMLab ([Nanoelectronic Materials Laboratory gGmbH](#), an affiliated Institute at TU Dresden). This was due to it being the tenth anniversary of the research institution, which is also one of the partner institutes within the cfaed Cluster of Excellence. The NaMLab closes the considerable gap between materials research and the research into electronic circuits and systems



*NaMLab director Prof. Thomas Mikolajick. Photo: cfaed / Jürgen Lösel*

### FIRST IEEE 5G SUMMIT IN DRESDEN

The [5G Lab Germany](#), which is based at TU Dresden, is to host the first 5G Summit on German soil. This will take place on 29 September at the International Congress Center, Dresden. The series of events was initiated by the IEEE, the world's largest technical professional association, in order to bring together the leading minds worldwide in the area of mobile communication systems. The goal is to advance the standardisation of the fifth generation of mobile communications.

#### PUBLISHING DETAILS

*Responsible for Publishing:*  
*Marlene Odenbach, Kim-Astrid Magister*

*Postal Address:*  
*Pressestelle der TU Dresden / D-01062 Dresden*

*Address for Visitors:*  
*Nöthnitzer Straße 43 / D-01187 Dresden*

*Phone +49 351 463-32398 / Fax +49 351 463-37165*  
*<http://tu-dresden.de/pressestelle@tu-dresden.de>*